

CLAIMS

The listing of claims below replaces all prior versions and listings.

1. (Currently amended) A system for testing subscriber lines, comprising a broadband line testing control module and a remote terminal subscriber access control module located at a subscriber line between the broadband line testing control module and a remote terminal unit, wherein

said broadband line testing control module ~~sending~~ is configured to send a signal of disconnecting the subscriber line to the remote terminal subscriber access control module through a terminal managing channel of a Digital Subscriber Line Access Multiplexer (DSLAM), and ~~testing test~~ the subscriber line;

said remote terminal subscriber access control module ~~receiving~~ is configured to receive said signal from the broadband line testing control module, and ~~controlling control~~ the remote terminal unit to disconnect from ~~or connect to~~ the subscriber line based on said signal.

2. (Currently amended) The system of claim 1, wherein said broadband line testing control module comprises:

a broadband line testing module, ~~sending a~~ configured to send the signal of disconnecting the subscriber line, implement the performance testing for the subscriber ~~lines~~ line and ~~obtaining~~ obtain a testing ~~results~~ result after the remote terminal unit is disconnected from the subscriber line; and

a remote terminal subscriber control module, ~~for receiving~~ configured to receive the signal of disconnecting the subscriber line from the broadband line testing module and ~~forwarding it~~ forward the signal of disconnecting the subscriber line to the remote terminal subscriber access

control module through the terminal managing channel of the DSLAM.

3. (Currently amended) The system of claim 1, wherein said remote terminal subscriber access control module comprises:

a switch control module, ~~for receiving~~ configured to receive the signal from the broadband line testing control module through the terminal management channel of the DSLAM, and ~~generating~~ generate a control signal and ~~transmitting~~ transmit said control signal; and

a remote terminal subscriber control switch, ~~for receiving~~ configured to receive said control signal from the switch control module and ~~disconnecting~~ disconnect the remote terminal unit from the subscriber line based on said control signal.

4. (Original) The system of claim 3, wherein:

said switch control module comprises a timer circuit, and said timer circuit is triggered based on the signal sent by the broadband line testing control module, and determines time-out time based on the testing required time value which is carried in this signal; when overrunning the defined time-out time, the timer circuit notifies the switch control module to send the remote terminal subscriber control switch a control signal of setting it at off status;

said remote terminal subscriber control switch controls the remote terminal unit to connect to the subscriber line after receiving said control signal of setting the remote terminal subscriber control switch at off status from the switch control module.

5. (Original) The system of claim 1, wherein said remote terminal subscriber access control module is a relay.

6. (Currently amended) The system of claim 1, wherein said broadband line testing control module is located in [[a]] the DSLAM;

said remote terminal subscriber access control module is located at the subscriber line between a splitter in user end and the remote terminal unit, or located at the subscriber line between the splitter in user end and the DSLAM.

7. (Currently amended) A method for testing subscriber lines based on the system of claim 1, comprising:

[[A.]] a broadband line testing control module sending a signal of disconnecting subscriber line to a remote terminal subscriber access control module through a terminal managing channel of a Digital Subscriber Line Access Multiplexer (DSLAM);

[[B.]] the remote terminal subscriber access control module disconnecting a remote terminal unit from the subscriber line after receiving said signal of disconnecting subscriber line; and

[[C.]] the broadband line testing control module testing the subscriber line.

8. (Original) The method of claim 7, wherein said signal is transmitted through a message based on G994.1 protocol.

9. (Currently amended) The method of claim 7, further comprising ~~before step A:~~  
the broadband line testing control module sending a handshake message to the remote terminal unit, and determining whether said remote terminal unit supports the testing based on

the returned message from the remote terminal unit, if yes, ~~executing step A~~ sending the signal of disconnecting subscriber line to the remote terminal subscriber access control module; otherwise ending this processing.

10. (Currently amended) The method of claim 7, wherein:

said signal ~~in step A~~ of disconnecting subscriber line carries a testing required time value;  
further comprises ~~in step B~~:

after receiving the signal, the remote terminal subscriber access control module triggering a timer, and determining a time-out time based on the testing required time value which is carried in said signal;

when overrunning the time-out time, accessing the remote terminal unit to the subscriber line.

11. (Currently amended) The method of claim 7, further comprising ~~in step B~~:

when disconnecting the remote terminal unit from the subscriber line, said remote terminal subscriber access control module returning a response message to the broadband line testing control module;

further comprising ~~before step C~~:

the broadband line testing control module receiving the returned response message from the remote terminal subscriber access control module, and testing the subscriber line after delaying a defined time period.

12. (Cancelled)